

line 12, delete "An invention according to claim 2" and insert "In another aspect,

B1 the invention above further"; delete "the line head";

line 13, delete "according to claim 1, in which" and insert "--that--;

line 16, delete "An invention according to claim 3" and insert "In still another

B2 aspect, the invention".

Page 5, line 4, delete "the line head for ink-jet printer according to claim" and insert "

B3 accord with the first aspect of the invention described above,";

line 5, delete "1,";

line 9, delete "In the line head according to claim 3" and insert "Further, in

B4 accord with the last aspect of the invention described above".

Page 8, line 14, delete "mazenta" and insert "--magenta--;

line 15, delete "mazenta" and insert "--magenta--.

IN THE CLAIMS:

Please *cancel* claim 2 without prejudice or disclaimer.

Please *amend* the claims as follows:

1. (Amended) A [line] head for ink-jet printer comprising:

B5 a silicon substrate on which a plurality of ink [nozzle;] nozzles and a plurality of ink passages each communicating [to each ink nozzle separately;] separately to each of the ink nozzles are processed finely using a plasma etching method;

an inorganic substrate which is joined with said silicon substrate and is provided with ink chambers each communicating [to each ink passage separately;] separately to each of the ink passages; and

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a piezoelectric element of ferroelectric substance for changing separately a capacity of each of the ink [chamber] chambers [separately] to jet an ink from said ink nozzles through said ink [passages] chambers;

wherein said ink passages are fine as compared with said ink chambers and said ink nozzles are fine as compared with said ink passages [a silicon substrate is employed as a substrate on which said ink nozzles and said ink passages are formed].

B6
3. (Amended) A method for manufacturing a [line] head for an ink-jet printer which comprises [comprising:] a plurality of ink nozzles[;], ink passages each communicating separately to each [ink nozzle separately] of the ink nozzles; ink chambers each communicating separately to each of the ink [passage separately] passages; and a piezoelectric element of ferroelectric substance for changing separately a capacity of each of the ink [chamber separately] chambers to jet [an] ink from said ink nozzles through said ink passages; the method comprising the steps of:

[wherein a thin film of ferroelectric substance of said piezoelectric element is formed by applying a fine patterning to a gel thin film of ferroelectric substance which is obtained by] introducing a photosensitive group into a precursor sol of ferroelectric substance formed by a sol-gel method; [and]

forming a thin film of ferroelectric substance gel by applying said precursor sol to a base; and

forming said piezoelectric element of a ferroelectric substance by applying a fine patterning to said thin film of ferroelectric substance gel through optical fabrication.

Please add the following new claims:

- B7
- 4. The head for ink-jet printer according to claim 1, wherein said ink nozzles have tapered configurations.
5. The head for ink-jet printer according to claim 1, wherein said silicon substrate has a construction in which plural silicon substrates are laminated.
6. The head for ink-jet printer according to claim 5, wherein said ink nozzles and said ink passages are communicated by laminating the silicon substrate in which said ink nozzles are processed and the silicon substrate in which said ink passages are processed.
7. The head for ink-jet printer comprising:
the head for ink-jet printer as defined in claim 1; and
an ink tank for storing ink supplied to said ink chambers of said printer head.
8. A head for ink-jet printer manufactured by the manufacturing method according to claim 3.
9. A method for manufacturing a head for a ink-jet printer according to claim 3, further comprising the steps of:
forming said ink passages to have a cross-sectional area less than a cross-sectional area of said ink chambers, and